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# भारत का राजपत्र

## The Gazette of India

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No. 42] NEW DELHI, SATURDAY, OCTOBER 18, 1986 (ASVINA 26, 1908)

इस भाग में भिन्न पृष्ठ संख्या दो जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचना और नोटिस  
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Calcutta, the 18th October 1986

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**CORRIGENDUM**  
(1)

In the Gazette of India, Part III, Section 2 dated 5th November, 1983 under the heading "PATENTS SEALED" delete 151019.

(2)

In the Gazette of India Part III, Section 2, dated the 6th October, 1984 under Section 57 in Page 840 Column 2 under the heading 'Amendment Proceedings under Section 57' in respect of Patent No. 152757 has been withdrawn.

(3)

In the Gazette of India, Part III, Section 2 dated 11th January 1986 under the heading "PATENTS SEALED" delete 154199.

**APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017**

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

12th September, 1986

679/Cal/86. Essex Group, Inc. Corrugated Mica Product.

680/Cal/86. (1) Uralsky Nauchno-Issledovatel'sky Institut Chernykh Metallov, (2) Permsky Politekhnichesky Institut. Process for producing vanadium pentoxide.

681/Cal/86. Westinghouse Electric Corporation. Improvements in or relating to switching technique for thyristor-switched capacitors to achieve network damping.

682/Cal/86. Samuel Heath & Sons PLC. Sealing Rings  
13th September, 1985) Great Britain.

16th September, 1986

683/Cal/86. Mazhar Shah. A fluid dispenser for dispensing a liquid containing a volatile component.

684/Cal/86. Chattan Nominees Pty. Ltd. Collection of human body discharge. (13th September, 1985) Australia.

685/Cal/86. Merck Patent Gesellschaft Mit Beschränkter Haftung. Flaky Coloured Pigments.

686/Cal/86. D. C. Ghose &amp; Co. (Agents) Private Limited. A machine for sealing bags or pouches made of sheets or films of plastic and other sheet materials.

687/Cal/86. The Babcock &amp; Wilcox Company. On line replaceable sensor assembly for a vortex shedding flowmeter.

688/Cal/86. The Babcock &amp; Wilcox Company. Two wire 4-20 MA Electronics for a fiber optic vortex shedding flowmeter.

689/Cal/86. The Babcock &amp; Wilcox Company. Overload protection for fiber optic microbend sensor.

**COMPLETE SPECIFICATION ACCEPTED**

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CLASS : 17A<sub>2</sub>, 4 & D

158305

Int. Cl. : C12 c 11/00.

**A PROCESS FOR THE PREPARATION OF AN ALCOHOL-FREE BEVERAGE HAVING A YEAST AROMA**

Applicant : BRAUEREI FELDSCHLOSSCHEN, OF FELDSCHLOSSCHENSTRASSE 34, CH-4310 RHEINFELDEN, SWITZERLAND, A SWISS COMPANY.

Inventor : DEX FRITZ SCHUR.

Application for Patent No. 291/Del/1982 filed on 12th April, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**15 Claims**

A process for the preparation of an alcohol-free beverage having a yeast aroma which comprises contacting yeast fermentable or non-fermentable aqueous liquid of the kind such as herein described at a temperature sufficiently low so that virtually no alcoholic fermentation occurs with a yeast which has been removed from a fermentation process and which has been freed of fermented liquid, said contact being maintained until the aroma substances of the yeast have diffused therefrom into said aqueous liquid and, if desired, stabilising said resulting alcohol-free beverage in a manner such as herein described.

Complete specification 13 pages.

CLASS : 50B

158306

Int. Cl. : F 25 d 17/04.

**IMPROVEMENTS IN OR RELATING TO AIR COOLERS**

Applicant : PRABHAT KUMAR, AN INDIAN CITIZEN OF C-5/16 SAFDARJUNG DEVELOPMENT AREA, NEW DELHI-110016, INDIA.

Inventor : PRABHAT KUMAR.

Application for Patent No. 531/Del/82 filed on 13th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

**4 Claims**

An aircooler comprising an external housing, blower means for drawing and expelling air consisting of a fan or rotor mounted within an enclosure therefor located within said external housing, said enclosure being provided with inlet means for intake of air and outlet means for expelling said air, said outlet means being provided within one wall

of said external housing, at least some of the other walls of said housing being provided in the form of louvres or with a plurality of apertures, said louvres or said apertured walls being adapted to be packed with moisture-flow retardant material such as herein described, a pump for maintaining a continuous supply of water over said louvres or said material-packed other walls of said housing and a spinning body such as herein described mounted for rotation about a shaft and located at the inlet to said enclosure whereby air drawn by said blower means through said louvres or said apertured walls of said housing and then through said water-cooled packing material is caused to pass through said spinning body before entering said inlet and thus substantially to reduce its water droplet content.

Compl. specn. page 11.

Drg. 2 sheets.

CLASS : 32 B

158307

Int. Cl. : C 07 b—27/00.

**A TRANSALKYLATION AND ISOMERIZATION PROCESS FOR THE PRODUCTION AND RECOVERY OF P-XYLENE.**

Applicant : UOP INC., A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE IN THE UNITED STATES OF AMERICA, WITH ITS PRINCIPAL PLACE OF BUSINESS AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS, UNITED STATES OF AMERICA.

Inventor : CHARLES VINCENT BERGER.

Application for Patent No. 534/Del/1982 filed on 14th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A transalkylation and isomerization process for the production and recovery of p-xylene which comprises the steps of :

- (a) separating a feed stream comprising indane,  $C_8$ ,  $C_9$  and  $C_{10}$  alkylaromatic hydrocarbons, in a first fractionation zone comprising two fractionation columns into a first  $C_8$  stream rich in  $C_8$  alkylaromatic hydrocarbons and which stream contains less than 5 mole per cent  $C_9+$  hydrocarbons, a first  $C_9$  stream rich in  $C_9$  alkylaromatic hydrocarbons and a first bottoms stream rich in  $C_{10}$  alkylaromatic hydrocarbons and which stream contains at least 50 mole per cent of said indane in said feed stream;
- (b) passing said first  $C_9$  stream, a first recycle stream rich in toluene and a second recycle stream comprising  $C_9$  and  $C_{10}$  alkylaromatic hydrocarbons into a transalkylation zone maintained at transalkylation conditions to produce a transalkylation zone effluent stream comprising  $C_7$  to  $C_9$  alkylaromatic hydrocarbons;
- (c) separating said transalkylation zone effluent stream in a second fractionation zone to produce a light aromatic hydrocarbon stream rich in toluene and which is used as said first recycle stream, a heavy hydrocarbon stream comprising  $C_9$  alkylaromatics and which is rich in  $C_9$  alkylaromatic hydrocarbons and which is used as said second recycle stream, a second  $C_9$  stream rich in  $C_8$  alkylaromatic hydrocarbon and a second bottoms stream rich in  $C_9$  alkylaromatic hydrocarbon and which is removed from said process;
- (d) combining said first and second  $C_9$  streams with a hereinafter defined third recycle stream;
- (e) passing said combined streams of (d) into a paraxylene separation zone wherein paraxylene is concentrated in a paraxylene-rich product stream, which is recovered as the product stream of said process,

and a paraxylene separation zone effluent stream is produced comprising metaxylene;

- (f) passing said paraxylene separation effluent stream comprising metaxylene into a xylene isomerization zone to isomerize said effluent to produce an isomerization zone effluent stream comprising paraxylene, orthoxylene and metaxylene; and
- (g) recycling at least a portion of said isomerization zone effluent stream to said paraxylene separation zone as said third recycle stream of step (d).

Compl. specn. 28 pages.

Drg. 1 sheet.

CLASS : 32 B

158308

Int. Cl. : C 07 c 7/00.

**A PROCESS FOR SEPARATING A NORMAL ALIPHATIC HYDROCARBON.**

Applicant : UOP INC., A CORPORATION ORGANIZED IN THE STATE OF DELAWARE, WITH ITS PRINCIPAL PLACE OF BUSINESS AT TEN UOP PLAZA, ALGONQUIN & MT. PROSPECT ROADS, DES PLAINES, ILLINOIS, U.S.A.

Inventors : SANTI KULPRATHIPANJA & RICHARD WILLIAM NEUZIL.

Application for Patent No. 554/Del/82 filed on 20th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A process for separating a normal aliphatic hydrocarbon from a mixture of the same with another structural class of hydrocarbon selected from the cyclic hydrocarbons having greater than six carbon atoms per molecule and the branched chain hydrocarbons, which comprises putting said mixture into contact with an absorbent comprising silicalite at a temperature of 40°C to 250°C and a pressure sufficient to maintain liquid phase to effect the selective adsorption of said normal aliphatic hydrocarbon by said absorbent and recovering said normal aliphatic hydrocarbon by desorption with a desorption material at a temperature within the range of 40°C to 250°C and a pressure sufficient to maintain liquid phase.

Complete specification 22 pages.

CLASS : 11 C

158309

Int. Cl. : A 23k 1/16.

**A PROCESS FOR THE PREPARATION OF FODDER AND FODDER ADDITIVES.**

Applicants : NITROKEMIA IPARTELEPEK, OF FUZGYARTELEP, HUNGARY, A HUNGARIAN COMPANY AND KERTESZETI EGYETEM, OF 35-43, VILLAGYI UT, BUDAPEST XI, HUNGARY, A HUNGARIAN COMPANY.

Inventors : ISTVAN PAIS, BALINT NAGY, JOZSEF DOKORI, ZOLTAN SZABO AND MAGDA FEHER NERZ RAVASZ.

Application for Patent No. 566/Del/1982 filed on 26th July, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(5 Claims)

A process for the preparation of fodder and fodder additives promoting the weight increase of domestic animals characterized in that watersoluble, stable complexes of titanium formed with as corbic acid, O-dihydroxybenzene, dihydroxy naphthalene-disulfonic acids, hydroxy carboxylic acids or polyhydroxy carboxylic acids or the salts thereof and optionally compounds exerting a preserving effect are added to the usual fodder and fodder additives.

Complete specification 14 pages.

CLASS : 32 F 3(a)

158310

Int. Cl. : C 07 c 69/00.

**A PROCESS FOR THE PRODUCTION OF CARBOXYLIC ACID ESTERS.**

Applicant : THE BRITISH PETROLEUM COMPANY, p.l.c. of BRITANNIC HOUSE, MOOR LANE, LONDON, LONDON, EC2Y 9BU ENGLAND, A BRITISH COMPANY.

Inventor : REGINALD GREGORY.

Application for Patent No. 609/Del/1982 filed on 10th August, 1982.

Convention date 21-8-1981/8125547/(Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A process for the production of a carboxylic acid ester which process comprises reacting at elevated temperature a carboxylic acid with an olefin or its oxide such as herein described in the presence as catalyst of a cation-exchangeable layered clay and water as the sole additive.

Complete specification 10 pages.

CLASS : 55 E 4 [XIV(3)] & 32 F 1 & 32 F 3(a)  
[XIX(1)]

158311

Int. Cl. : A 61 k 21/00.

**PROCESS FOR PREPARING 1-(3-BENZYLOXYPHENYL)-1, 1-DIMETHYLHEPTANE.**

Applicants : PFIZER INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : LAWRENCE SHERMAN MELVIN.

Application for Patent No. 693/Del/1982 filed on 10th September 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A process for preparing 1-(3-benzyloxyphenyl)-1, 1-dimethylheptane which comprises reacting 1-(3-benzyloxyphenyl)-1-chloro-1-methylheptane in a reaction-inert solvent at a temperature from -20°C to 10°C with from 1-3 molar equivalents of trimethylaluminum.

Complete specification 14 pages.

CLASS : 187 C<sub>8</sub>.

158312

Int. Class : H04m 3/00.

**"A DIGITAL EXCHANGE COMPRISING GROUPS OF TERMINAL UNITS".**

Applicant : COMPAGNIE INDUSTRIES DES TELECOMMUNICATIONS CIT-ALCATEL OF 12, RUE DE LA BAUME, 75008 PARIS, FRANCE, A FRENCH BODY CORPORATE.

Inventor : BERNARD DUPUIS &amp; FRANCOIS BEHA-GUE.

Application for Patent No. 699/Del/1982 filed on 13th September, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch New Delhi-110005.

(6 claims).

A digital exchange comprising groups of terminal units, a switching network having four independent groups of time switches controlled by markers, the terminal units constituting groups connected to the switching network and each terminal unit including a microprocessor together with terminals, distribution modules for distributing clock signals and synchronising signals connected thereto, and control units for controlling and managing the terminal units and the distribution modules, the improvement wherein each group of terminal unit comprises two clock and synchronisation circuits, each clock and synchronisation circuit having first, second, third, fourth synchronisation circuits and a time base connected to one of the distribution modules, the first and second synchronisation circuits being each connected to a group of time switches by an outlet link and by a terminal inlet link, the third and fourth synchronisation circuits being each connected by an inlet link to each of the groups of time switches to which the first and second synchronisation circuits are connected and by a terminal outlet link to the terminal units, and wherein the control of a terminal unit by a control unit is performed by interchanging message between the microprocessors of the terminal unit and the control unit said interchange taking place over the switching network using a semaphore procedure on one time slot of a frame on said inlet and outlet links and said terminal inlet and outlet links.

Compl. Specn. 29 pages. Drgs. 11 sheets.

CLASS : 187 C<sub>8</sub>.

158313

Int. Class : H04m 3/00 &amp; H04j 3/00.

**"A NETWORK FOR A TIME DIVISION EXCHANGE".**

Applicant : COMPAGNIE INDUSTRIELLE DES TELECOMMUNICATIONS CIT-ALCATEL, OF 12, RUE DE LA BAUME 75008 PARIS, FRANCE, A FRENCH BODY CORPORATE.

Inventor : PHILIPPE DUPLESSIS &amp; MICHEL BRUSA.

Application for Patent No. 701/Del/1982 filed on 13th September, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 claims

A network for a time division exchange comprising :

a central switching network having a plurality of independent planes as hereinbefore described;

a plurality of terminal units, each connected to each plane of the switching network by at least one multiplex link;

exchange control means of distributed architecture as hereinbefore described comprising a plurality of control units, each likewise connected to each plane of the switching network by at least one multiplex link; and

a time base supplying signals to clock signal distribution modules as hereinbefore described for distributing clock signals to said units;

wherein the exchange includes at least two parallel connections connecting each terminal unit through said multiplex links to different planes of the switching network and through clock signal distribution links and synchronisation signal distribution links to different ones of said clock signal distribution modules which are likewise provided with different power supplies.

Compl. Specn. 13 pages. Drgs. 4 sheets.

CLASS : 187 C<sub>3</sub>[LXI (2)]

158314

Int. Cl. : H 04m 3/00.

"A DISTRIBUTED CONTROL EXCHANGE HAVING A TIME-DIVISION SWITCHING NETWORK, AND A SECURITY SYSTEM".

Applicants : COMPAGNIE INDUSTRIELLE DES TELECOMMUNICATIONS CIT-ALCATEL, OF 12, RUE DE LA BAUME, 75008 PARIS, FRANCE, A FRENCH BODY CORPORATE.

Inventors : ABDEL CADER KHIMECHE & MARC KEMLER.

Application for Patent No. 702/Del/1982 filed on 13th September 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 7 Claims

A distributed control exchange having a time-division switching network and a security system, said exchange having :

- a switching network comprising switches and markers, said markers being connected to the switches and controlling the switching network,
- groups of terminals units, each terminal unit comprising a plurality of terminals and a microprocessor connected to said terminals, each terminal unit being connected to the switching network by multiplex links,
- peripherals including disks, dialog terminals, magnetic tape transports and data links,
- exchange control means comprising a plurality of peripheral control units and interchangeable control units, said peripheral control unit being connected to said peripherals, said interchangeable and peripheral control units being interconnected by two point-to-point links and being connected to the switching network by multiplex links, and each interchangeable control unit and each peripheral control unit including a controlling microprocessor,
- wherein each peripheral control unit, each interchangeable control unit, each point-to-point link, each switch, each multiplex link, each terminal unit, each terminal, and each peripheral constitutes a security block capable of being independently isolated from the rest of the exchange, and
- wherein the security system is distributed on local level I, management level II and a Central level III such as hereinbefore described,
- said first level comprising security means in each microprocessor of the said security blocks for detecting faults appearing in the functioning of said security block and for taking decisions concerning current processing,
- and second level comprising means in each said interchangeable control units and in each peripheral control unit for said security blocks for switching over from one security block to another and for reconfiguring the links affected by the switchover, and

— said third level comprising means connected to the first and the second level by said links, said third level means comprising two of said peripheral control units and two mass memories each containing a copy of the software needed to run the exchange.

Compl. specn. 32 pages.

Drgs. 6 sheets.

CLASS : 170-A

158315

Int. Cl. : B 01 d 11/00.

A SYNERGISTIC SOLVENT COMPOSITION FOR WASHING HIGH MOLECULAR SUBSTANCES STUCK ON THE INTERIOR OF A PRODUCTION APPARATUS OR MOLDING APPARATUS.

Applicant : MITSUI TOATSU CHEMICALS, INCORPORATED AND TOYO ENGINEERING CORPORATION, BOTH OF NO. 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. MASAHIRO KANEKO, 2. TADASHI ASUNUMA, 3. NOBUTAKA UCHIKAWA, 4. ICHIRO FUJIO, 5. TETSUNOSUKE SHIOMURA.

Application No. 687/Cal/82 filed June 15, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

A synergistic solvent composition for washing and removing high molecular substances stuck on the interior of a production apparatus or molding machine upon producing or molding an aromatic vinyl-acrylonitrile copolymer comprising (i) at least one solvent selected from the group consisting of alkylamides and alkylsulfoxides, and (ii) a mixture containing (a)  $1.0 \times 10^{-4}$ —1.0 gram equivalent of at least one hydroxide represented by the general formula (1) :



where  $n$  stands for an integer of 1 or 2 and M denotes an alkali metal when  $n=1$  or an alkaline earth metal when  $n=2$ , per every liter of said one or more solvents and (b) 0.03—3.0 wt. % of water based on said solvent under item (i).

Compl. specn. 26 pages.

Drg. 1 sheet.

CLASS : 98-G

158316

Int. Cl. : F 28 d 9/00.

HEAT EXCHANGE APPARATUS WITH MEANS FOR CLEANING ARRANGEMENT.

Applicant : THE AIR PREHEATER COMPANY, INC., OF ANDOVER ROAD, WELLSVILLE, NEW YORK, UNITED STATES OF AMERICA.

Inventor : 1. KENNETH ORREN BELLOWS.

Application No. 775/Cal/82 filed July 2, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

Heat exchange apparatus including a housing having inlet and outlet ducts for a heating fluid and for a fluid to be heated, a cylindrical rotor of heat absorbent material in said housing mounted for rotation about the central axis of the rotor, means for rotating the rotor to alternately subject the heat absorbent material thereof to the heating fluid and to the fluid to be heated, infrared ray detecting

means including a sensor having a lens that confronts the heat absorbent material of the rotor, a support arm supporting the sensor, means moving the sensor support arm along a path in a plane parallel to and adjacent the end of the rotor, a source of pressurized cleaning fluid, fixed nozzle means adapted to confront said lens as the sensor traverses a portion of its path adjacent the end of the rotor, and means for exhausting a blast of cleaning fluid from said source through the fixed nozzle to impinge upon the surface of the lens as it confronts the nozzle whereby dust deposits on said lens are removed therefrom.

Compl. specn. 8 pages.

Drg. 1 sheet.

CLASS : 70-A

158317

Int. Cl. : C 22 d 3/00.

**A DEVICE FOR THE PRECISE ADJUSTMENT OF THE ANODE PLANE OF AN ELECTROLYSIS CELL FOR THE PRODUCTION OF ALUMINIUM.**

Applicant : ALUMINIUM PECHINEY, OF 28 RUE DE BENNEL 69003, LYON, FRANCE.

Inventors : 1. DANIEL DUCLAUX, 2. ROGER BOINET, 3. JEAN-LOUIS GERPHAGNON, 4. JEAN BAGHE.

Application No. 1140/Cal/82 filed October 1, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A device for the precise adjustment of the anode plane of a cell for the production of aluminium by electrolysis of alumina dissolved in molten cryolite of which the system comprises a plurality of prebaked anodes arranged in two parallel lines and provided with suspension rods connected electrically to a bus bar which permits the positive intake of current and of which the cathode plane is constituted by the layer of liquid aluminium produced, characterised in that it comprises :

- (a) a fixed gantry formed by at least one rigid horizontal beam 1 provided with supports 2 at its ends;
- (b) a collective frame formed by two rigid horizontal elements 5, 5' each corresponding to a line of anodes, each supported by the fixed gantry 1 via an assembly of rods and of levers 3, 3', 4, 4' which enable the two rigid elements 5, 5' to travel relative to the gantry in a rising or descending direction, while remaining horizontal;
- (c) a means 7, 7' for controlling each assembly of rods 3 and levers 4 which is separate but can be coupled;
- (d) a plurality of means 9 for individually controlling the rise or descent of the anodes which are connected on the one hand to the collective frame and on the other hand to a plurality of small individual frames 10;
- (e) means for electrical and mechanical connection 17 between the small individual frames 10 and the anode suspension frames;
- (f) means for electrical connection 15 between the main bus bar 12, 12' and the small individual frames 10.

Compl. specn. 22 pages.

Drg. 4 sheets.

CLASS : 56-D

158318

Int. Cl. : B 01 d 15/00.

**CONCENTRATION OF ORGANIC CHEMICALS FROM DILUTE AQUEOUS SOLUTIONS.**

Applicant : CPC INTERNATIONAL INC., AT INTERNATIONAL PLAZA, P.O. BOX 8000, NEGLEWOOD CLIFFS, NEW JERSEY 07632 USA.

Inventor : 1. BRANKO URBAS.

Application No. 1321/Cal/82 filed November 11, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A process for concentrating a dilute aqueous solution of an organic compound by adsorbing the organic compound on an adsorbent carbon, eluting the organic compound from the carbon with a volatile solvent, and separating the volatile solvent from the mixture of solvent and eluted organic compound, characterized in that it comprises :

passing vapors of the volatile solvent through a bed of the carbon containing absorbed organic compound, said bed being maintained at a temperature at or slightly below the condensation temperature of the solvent, at a rate of less than one-half bed volume per hour until the volatile solvent is detected in the eluate.

continuing to pass said vapors through the bed until about one-half bed volume of eluate containing a concentrated aqueous solution of the organic compound in the volatile solvent is collected, and

evaporating the volatile solvent from said one-half bed volume of eluate to obtain an aqueous solution of the organic compound containing at least 30% of the organic compound by weight.

Compl. specn. 24 pages.

Drg. Nil.

CLASS : 103

158319

Int. Cl. : C 23 f 11/00; C 09 k 3/00.

**PROCESS FOR PREPARING CORROSION INHIBITING ADDITIVE FOR USE IN ALCOHOL AND ALCOHOL CONTAINING FUELS.**

Applicant : THE LUBRIZOL CORPORATION, 29400 LAKELAND BOULEVARD, WICKLIFFE, OHIO 44092, UNITED STATES OF AMERICA.

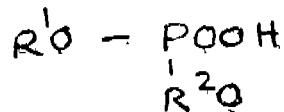
Inventor : 1. JOHN CASPER DORER, JR.

Application No. 80/Cal/83 filed January 20, 1983.

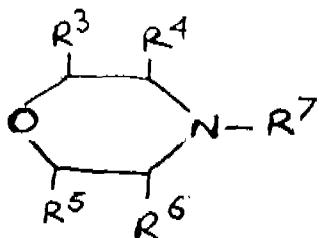
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

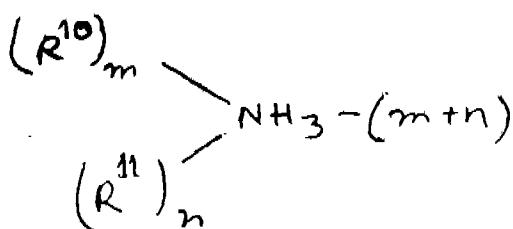
A process for preparing corrosion inhibiting additive for use in alcohol and alcohol containing normally liquid hydrocarbonaceous petroleum distillate fuels comprising reacting (A) at least one phosphoric acid compound having the formula I,



wherein R<sup>1</sup> is a hydrocarbon based radical containing from 8 to 18 carbon atoms and R<sup>2</sup> is hydrogen or a hydrocarbon based radical containing from 8 to 18 carbon atoms and (B) at least one amine compound selected from the group consisting of morpholines of the formula II



wherein R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> are independently hydrogen or alkyl radicals containing from 1 to 3 carbon atoms and R<sup>7</sup> is hydrogen or a radical selected from the group consisting of hydrocarbon based radicals containing from 1 to 20 carbon atoms and R<sup>8</sup><sup>x</sup> × R<sup>9</sup> radicals where R<sup>8</sup> is a divalent aliphatic hydrocarbon radical containing from 1 to 20 carbon atoms, x is a number ranging from 1 to 10 and R<sup>9</sup> is hydrogen or an aliphatic hydrocarbon radical containing from 1 to 6 carbon atoms and alkanolamines having the formula III



wherein R<sup>10</sup> is a hydrocarbon based radical containing at least one hydroxyl group, R<sup>11</sup> is a hydrocarbon based radical containing from 1 to 20 carbon atoms, m is a number equal to 1, 2 or 3 n is a number equal to 0, 1 or 2 and the sum of m + n is a number ranging from 1 to 3.

Compl. specn. 16 pages.

Drg. 1 sheet.

CLASS : 69-I

158320

Int. Cl. : H 01 h 9/00.

#### AN ELECTRICAL SHORTING SWITCH ASSEMBLY INCLUDING A LAST TO OPEN LAST TO CLOSE ARCING SWITCH.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : 1. ROBERT MACQUIRE HRUDA.

Application No. 103/Cal/83 filed January 27, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

An electrical shorting switch assembly for connection across an electrolytic cell as a by-pass shorting switch in parallel with the electrolytic cell and which comprises at least two electrically paralleled hermetically sealed switch modules, one of which switch modules is a last-to-open and last-to-close arcing switch module; and means for sequentially operating the respective switch modules.

Compl. specn. 10 pages.

Drg. 4 sheets.

CLASS : 70-B

158321

Int. Cl. : B 01 k 3/02; C 23 b 5/72.

#### ELECTROLYTIC ELECTRODES HAVING HIGH DURABILITY AND PROCESS FOR PRODUCTION OF SAME.

Applicant : PERMELEC ELECTRODE LTD., OF 1159, ISHIKAWA, FUJISAWA-SHI, KANAGAWA, JAPAN.

Inventors : 1. HIROSHI ASANO, 2. TAKAYUKI SHIMAMUNE, 3. HIDEO NITTA, 4. RYUTA HIRAYAMA.

Application No. 1043/Cal/83 filed August 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 13 Claims

An electrolytic electrode comprising: (a) an electrode substrate of an electrically-conductive metal; (b) an electrode coating of an electrode active substance; and (c) an intermediate layer provided between said electrode substrate and said electrode coating, said intermediate layer comprising a mixed oxide of (i) an oxide of at least one member selected from the group consisting of titanium (Ti) and tin (Sn), both having a valence number of 4, and (ii) an oxide of at least one member selected from the group consisting of tantalum (Ta) and niobium (Nb), both having a valence number of 5.

Compl. specn. 18 pages.

Drg. Nil.

CLASS : 32-A1

158322

Int. Cl. : C 09 b 33/10.

#### PROCESS FOR THE PREPARATION OF WATER-SOLUBLE DISAZO DYESTUFFS.

Applicant : HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT, AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

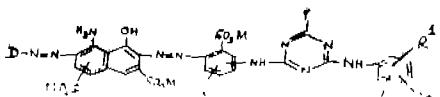
Inventors : 1. FRITZ MEININGER, 2. LUDWIG SCHLAFER.

Application No. 167/Cal/83 filed February 14, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

A process for the preparation of a water-soluble disazo compound of the formula (1) of the accompanying drawings :



in which

M is a hydrogen atom on the equivalent of a metal;

one sulfo group of the formula MO<sub>3</sub>S<sup>-</sup> in the amino-naphthol radical is bonded to the naphthalene nucleus in the meta-or para-position relative to the amino group;

R is a hydrogen atom, an alkyl group of 1 to 4 carbon atoms, an alkoxy group of 1 to 4 carbon atoms or a sulfo group;

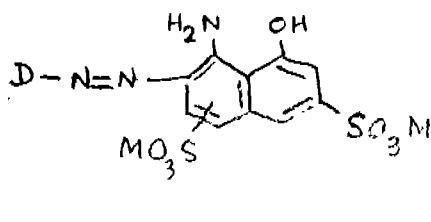
R<sup>1</sup> is a hydrogen atom, an alkyl group of 1 to 4 carbon atoms or an alkoxy group of 1 to 4 carbon atoms.

$R^*$  is a hydrogen atom, an alkyl group of 1 to 4 carbon atoms an alkoxy group of 1 to 4 carbon atoms or a chlorine atom;

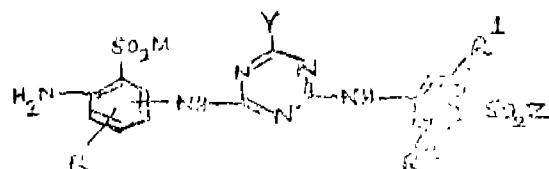
$Y$  is a chlorine atom or a fluorine atom;

$Z$  is the vinyl group or a  $\beta$ -sulfatoethyl group; and  
 $D$  is a monosulfo-naphthyl, disulfo-naphthyl or trisulfo-naphthyl radical,

however, in the case that the triazinylamino group is bonded to the benzene ring in the para-position to the sulfo group- $SO_3M$  bonded to that benzene ring, and  $R$  is simultaneously a hydrogen atom, then  $D$  is a 3-sulfo-1-naphthyl, 4-sulfo-1-naphthyl, 6-sulfo-1-naphthyl, 7-sulfo-1-naphthyl, 3, 6-disulfo-1-naphthyl, 3, 7-disulfo-1-naphthyl, 4, 6-disulfo-1-naphthyl, 4, 7-disulfo-1-naphthyl, 5, 7-disulfo-1-naphthyl, 3, 5, 7-trisulfo-1-naphthyl, 3, 6, 8-trisulfo-1-naphthyl, 4, 6, 8-trisulfo-1-naphthyl, 5, 6-sulfo-2-naphthyl, 5, 7-disulfo-2-naphthyl, 6, 8-disulfo-2-naphthyl, 5, 7-disulfo-2-naphthyl, 6, 8-disulfo-2-naphthyl or the 4, 6, 8-trisulfo-2-naphthyl radical, which comprises coupling a monoazo compound of the formula (2)



in which  $M$  and  $n$  have the meanings given above with the diazonium salt of an amino compound of the formula (3)



in which  $M$ ,  $R$ ,  $R^1$ ,  $R^2$ ,  $Y$  and  $Z$  have the meanings given above.

Compl. specn. 37 pages.

Drg. 2 sheets.

CLASS : 85-F

158323

Int. Cl. : F 23 j 1/00.

#### A TOP SUPPORTED FURNACE IN WHICH ASH BEARING FUEL IS BURNED.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT, UNITED STATES OF AMERICA.

Inventor : 1. ROBERT PATTON SULLIVAN.

Application No. 502/Cal/83 filed April 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

A top-supported furnace in which an ash-bearing fuel is burned, comprising opening means in the furnace bottom, a bottom supported tank open at its upper end and containing water positioned beneath the furnace opening means, into which the ash from the furnace falls, means for removing the ash from the tank, an intermediate transition piece, drive means carried by the tank for moving the transition piece between a first position spaced from the furnace bottom, and a second position in engagement with

the furnace bottom, means for removably securing the transition piece to the furnace bottom, flexible seal means which completely surround the furnace bottom for sealing the space between the transition piece and the furnace bottom when the transition piece is in its second position, stop means for limiting the movement of the transition piece towards the furnace bottom to prevent the seal means from becoming crushed, and plate means carried by the transition piece which completely surround the furnace bottom which coats with a body of water carried by the tank for forming a water seal between the furnace bottom and the tank.

Compl. specn. 8 pages.

Drg. 2 sheets.

CLASS : 55-E<sub>1</sub>; 60-X<sub>2</sub> b

158324

Int. Cl. : A 61 k 23/00; C 12 k 5/00.

#### A PROCESS FOR PREPARING MONOCLONAL ANTIBODIES.

Applicant : FIELDER GILLESPIE DAVIS LIMITED, OF 55 CLARENCE STREET, SYDNEY, NEW SOUTH WALES, AUSTRALIA.

Inventors : 1. PETER GREGORY BUNDESEN, 2. DENNIS BRIAN RYLATT.

Application No. 180/Cal/84 filed March 13, 1984.

Convention dated 17th March 1983 (PF 8494) Australia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

A method of preparation of monoclonal antibody derived from a crosslinked fibrin derivative including the steps of :

- (i) obtaining a crosslinked fibring derivative or extract containing same; and
- (ii) forming antibody to said derivative or extract by cloning antibody producing cells from an animal having been administered thereto said derivative or extract.

Compl. specn. 35 pages.

Drg. 4 sheets.

CLASS : 32F<sub>3</sub>(a)

158325

Int. Cl. : C 07 C-167/00 & 173/10.

#### A PROCESS FOR THE PREPARATION OF NORETHISTERONE ESTERS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFTI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : KASTURI LAL, PANNALAL KOLE & SUPRAJABHAT RAY.

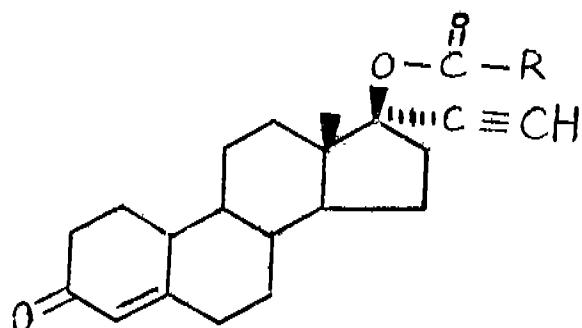
Application for Patent No. 23/Del/1982 filed on 11th January, 1982.

Complete specification left on 11th April, 1983.

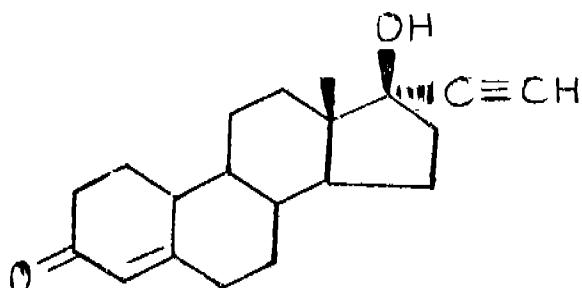
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

A method for the preparation of norethisterone esters of general formula I:



comprising reacting a norethisterone of general formula II

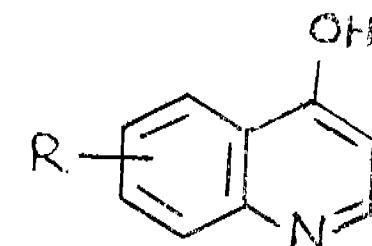


with a desired fatty acid in the presence of a condensing agent and a base in an aprotic solvent at ambient temperature, wherein R is a straight or branched chain alkyl, alkene or alkenyl group containing from 1 to 25 carbon atoms.

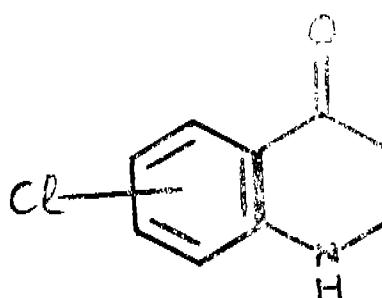
Provisional specification 5 pages.

Complete specn. 6 pages.

Drg. 2 sheets of  
Provisional.



in which R represents a hydrogen atom, or one, two or three substituents, which may be the same or different, selected from halogen atoms, alkyl radicals containing 1 to 4 carbon atoms, alkoxy radicals containing 1 to 4 carbon atoms, and the trifluoromethyl radical, the substituent(s) being in the 2-, 3-, 5-, 6-, 7- or 8-position, which comprises oxidising a 1, 2, 3, 4-tetrahydroquinolin-4-one of the general formula shown in Figure (II)



in which R is as hereinbefore defined, by means of oxygen or air, in the presence of a catalyst based on platinum or ruthenium, or alloys thereof, on a support.

Compl. specn. 17 pages.

Drg. 1 sheet.

CLASS : 32F<sub>1</sub>, 2(b)

158326

Int. Cl. : C07d 33/00, 33/24, 33/34, 33/38,  
33/40 & 33/36.

#### PROCESS FOR PREPARATION OF 4-HYDROXYQUINOLINES.

Applicant : RHONE-POULENC SANTE, A FRENCH BODY CORPORATE, OF "LES MIROIRS"-18, BOUCLE D'ALSACE, 92400 COURBEVOIE, FRANCE.

Inventor : MICHEL BAUDOUIN & DANIEL MICHELET.

Application for Patent No. 35/Del/1982 filed on 15th January, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.  
2-287GI/86

CLASS : 32F<sub>1</sub>

158327

Int. Cl. : C07d 23/00.

#### PROCESS FOR THE PREPARATION OF 4-AMINO-CHLOROQUINOLINES.

Applicant : RHONE-POULENC SANTE, A FRENCH BODY CORPORATE, OF "LES MIROIRS"-18, BOUCLE D'ALSACE, 92400 COURBEVOIE, FRANCE.

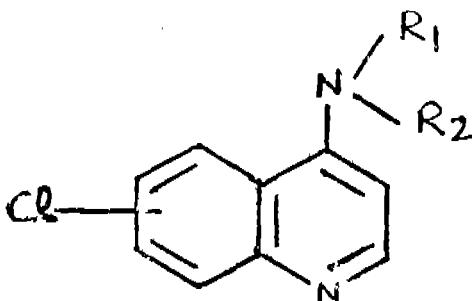
Inventors : MICHEL BAUDOUIN AND DANIEL MICHELET.

Application for Patent No. 36/Del/82 filed on 15th January, 1982.

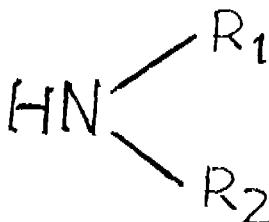
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

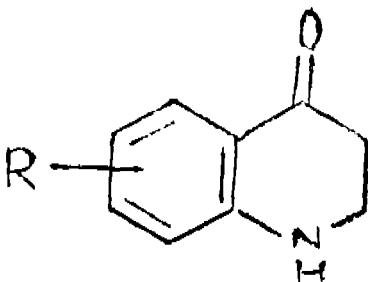
A process for the preparation of a 4-amino-chloroquinoline of the general formula I



as shown in the accompanying drawings in which R<sub>1</sub> represents a hydrogen atom or an alkyl radical containing 1 to 5 carbon atoms and R<sub>2</sub> represents an alkyl radical containing 1 to 5 carbon atoms, which is optionally substituted by a dialkylamino group of which each alkyl radical contains 1 to 4 carbon atoms, or a phenyl radical optionally substituted by one or more radicals selected from the carboxy and hydroxy radicals and alkyl radicals containing 1 to 4 carbon atoms optionally substituted by a dialkylamino group of which each alkyl radical contains 1 to 4 carbon atoms, which comprises carrying out the condensation of an amine of the general formula III.



in which R<sub>1</sub> and R<sub>2</sub> are as hereinbefore defined, with a chloro-1, 2, 3, 4-tetrahydroquinoline-4-one of the general formula II



with aromatisation of the tetrahydroquinoline, the reaction being carried out in the presence of a ruthenium based catalyst on a support.

Compl. specn. 28 pages.

Drg. 1 sheet.

CLASS : 154-B, 144 A & C & 55E4 & F. 158328

Int. Cl. : B, 41. m. 5/12, A, 61. k. 27/00 & Co 9. k. 1/00, 3/00.

"A PROCESS FOR THE MANUFACTURE OF A COLOURED SOLID ARTICLE BEARING AT LEAST ONE HIGHLIGHTED INTAGLIATION."

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC, of Imperial Chemical House, Millbank, London SW1P 3JF, England, a British Company.

Inventor : Sidney Fenton Forse & Raymond Charles Rowe.

Application for Patent No. 58/DEL/1982 filed on 27th January, 1982.

Convention date 9th March, 1981/8107275 & 9th September, 1981/8127301/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

## 5 Claims

A process for the manufacture of a coloured solid article bearing at least one highlighted intaglia which comprises applying to a coloured intagliated article a film coating suspension comprising at least one optically anisotropic substance having a minimum refractive index not greater than 2.00 and at least one film coating agent such as herein described, which process is carried out in a conventional film coating apparatus such that a rubbing action takes place between the articles being coated.

Compl. Specn. 20 Pages.

CLASS : 32 F1 and 32F 2(a) [IX(1)].

158329

Int. Cl. : C07C-85/00 & 87/00.

"AN IMPROVED PROCESS FOR THE PREPARATION OF SUBSTITUTED AROMATIC DIAMINES."

Applicant :: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110 001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

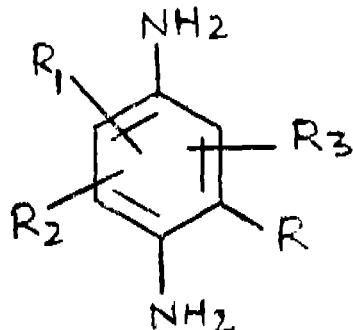
Inventors : Nanasaheb dattajirao ghatge & Noormahmad Nabisaheb Maldar.

Application for Patent No. 78/DEL/1982 filed on 30th January, 1982.

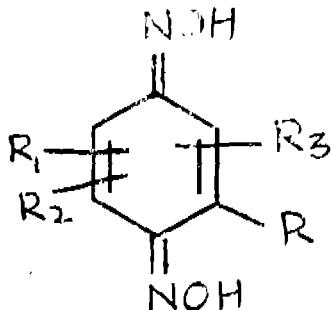
Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

## 5 Claims

An improved process for the preparation of substituted aromatic diamines of formula of fig. I.



Comprising subjecting quinonedioxime of formula of fig.II.



wherein R, R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> represents substituents such as hydrogen, halogen, hydroxyls, alkyl, alkoxy and phenyl radicals to catalytic hydrogenation at a temperature in the range of 20° to 150°C and atmosphere pressure of 5 to 150.

Compl. Specn. 6 Pages

Drawing One Sheet.

CLASS : 99 E. & 50 D.

158330

Int. Cl. : F04b, 43/04, F16m, 1/00 & F25b, 31/00.

"A STRUCTURED CONTAINER FOR A SEALED MOTOR COMPRESSOR UNIT WHICH REDUCES THE TRANSMISSION OF THE NOISE CREATED BY THE WORKING OF THE COMPRESSOR".

Applicant : NECCHI SOCIETA PER AZIONI, an Italian company of Via Rismundo, 78 Pavia, Italy.

Inventor : ALFREDO BAR.

Application for Patent No. 352/Del/1982 filed on 10th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

## 2 Claims

A structured container for a sealed motor compressor unit which reduces the transmission of the noise created by the working of the compressor which comprises a housing of substantially ovoid form within which said motor compressor is located, said housing being composed of an upper concave portion and a lower concave portion each of varying radius of curvature, said portions being hermetically sealed to each other to provide said housing having in longitudinal section an asymmetrical configuration and in transverse section an elliptical configuration, characterised in that the top of said upper portion is provided with a spherical-cup-shaped depression of a predetermined depth, the centre of the circle describing said depression being offset from the centre of the ellipse seen in transverse section of said housing, the axis of rotation of motor lying along the vertical axis passing through the centre of said ellipse and hence offset from the centre of said circle describing said depression.

Compl. Specn. 6 Pages.

Drawing 2 sheets.

CLASS : 130 I.

158331

Int. Cl. : C 22b 13/04 and 19/22.

"A PROCESS FOR THE RECOVERY OF LEAD AND ZINC VALVES FROM MOORE CAKE."

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110 001, India, an Indian Registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : PRAVAT KUMAR SAHOO, SARAT CHANDRA DAS AND PRAFULLA KUMAR JENA.

Application for Patent No. 378/DEL/1982 filed on 19th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110 005.

## 10 Claims

A process for the recovery of zinc and lead values from Moore Cake comprising blending moore cake with ammonium sulphate and water, forming pellets thereof, roasting the dried pellets and leaching the roasted product with water to recover zinc as zinc sulphate and further leaching the residue thereof with brine solution to recover lead as lead chloride.

Compl. Specn. 9 Pages.

3—287GI/86

CLASS : 32F<sub>2</sub>b

158332

Int. Cl. : C07d 33/38 & 33/54,

PROCESS FOR THE SYNTHESIS OF ACTIVATED ENAMINES OF 6-METHOXY 8-(4-AMINO-1-METHYL-BUTYLAMINO) QUINOLINE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110001, INDIA, AN INDIA REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : BALKRISHAN BHAT, MANJU SETH, AMIYA PRASAD BHADURI, SUBHASH CHANDRA, AMIYA BHUSHAN SEN, RITA RAINA AND NANDALAL PAL.

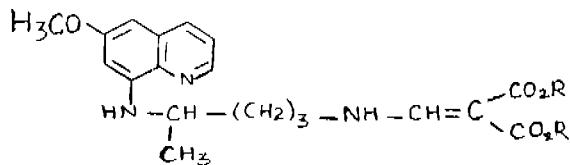
Application for Patent No. 391/Del/1982 filed on 24th May, 1982.

Complete specification left on 23rd August, 1983.

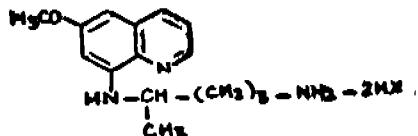
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 Claims

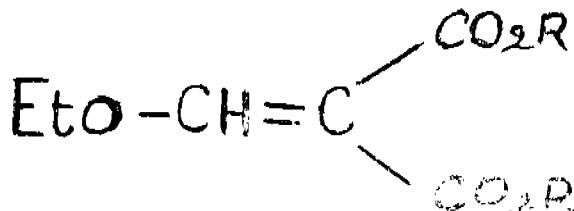
A process for the synthesis of activated enamines of 6-methoxy-8-(4-amino-1-methyl-butyl-amino) quinoline of the formula III



wherein R is a alkyl radical like methyl or ethyl comprising reacting salts of 6-methoxy-8-(4-amino-1-methyl-1-butylamino) quinoline of the formula I



Where HX represents salts like hydrochloride phosphates and sulphates with ethyoxy methylene alkoxy melonate of the formula II



where R has the meaning given above in the presence of an organic solvent and a base at the boiling temperature of the reacting mixture.

Provisional specification 4 pages.

Compl. specn. 5 pages.

Drg. 1 sheet.

CLASS : 32F<sub>a</sub>(b)

158333

Int. Cl. : C 07 d 93/00.

## PROCESS FOR PREPARING INTERMEDIATES FOR PRODUCTION OF BENZOTHIAZINE CARBOXAMIDES.

Applicant : BOLIDEN AKTIEBOLAG, OF STRUEGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

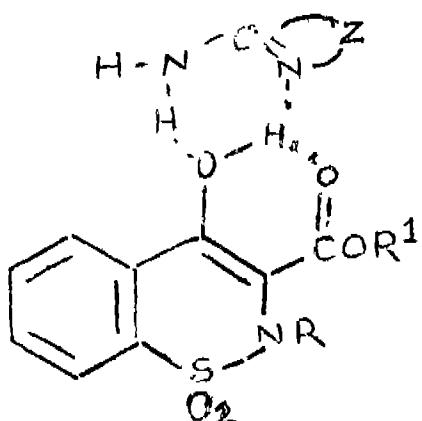
Inventor : JOSEPH ANTHONY KARDYS.

Application for Patent No. 490/Del/1982 filed on 30th June, 1982.

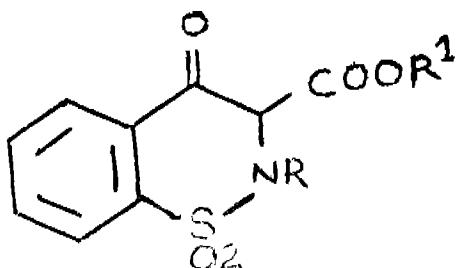
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 Claims

A process for the production of a compound of Formula IA



shown in the drawings wherein R is hydrogen, benzyl or alkyl having from one to three carbon atoms; R<sup>1</sup> is benzyl or alkyl having from one to four carbon atoms; and Z is benzopyronyl, alkyl substituted benzopyronyl, 2-pyridyl, alkyl substituted-2-pyridyl, 2-thiazolyl, 2-thiazolyl substituted by one or two alkyl groups, or 5-alkyl-3-isoxazolyl, each alkyl having from one to four carbon atoms; which comprises reacting an ester of the Formula II



with an equimolar amount of an amine of formula ZNH<sub>2</sub>, where R, R<sup>1</sup> and Z are as previously defined and heating the reaction mixture in the presence of a reaction inert organic solvent at a temperature of from 0 to 110°C.

Complete specn. 25 pages.

Drg. 3 sheets.

CLASS : 130 I &amp; G

158334

Int. Cl. : C 22 b 43/00.

## A METHOD FOR SEPARATING GASEOUS ELEMENTARY MERCURY FROM A GAS.

Applicant : BOLIDEN AKTIEBOLAG, OF STRUEGAN 22, 5508 S-114 85 STOCKHOLM, SWEDEN, A SWEDISH COMPANY.

Inventor : JOHAN ELOF WIKLUND.

Application for Patent No. 495/Del/1982 filed on 30th June, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 9 Claims

A method for separating gaseous elementary mercury from a gas in conjunction with a wet-gas cleaning process, comprising a multiple of washing stages, in which the mercury-containing gas is treated with an aqueous washing liquid of the kind such as herein described circulating in a closed circuit and containing from 1 to 3 g/l mercury (II) ions and at least twice that amount of ions capable of forming complexes with mercury (II) ions, and in which mercury present in the gas is oxidized and absorbed in the washing liquid, characterized by effecting said treatment process in conjunction with a gas-cooling process carried out subsequent to the last washing stage of said wet-gas cleaning process, to form a condensate for absorbing gaseous halogenides from the gas; transferring the condensate to the washing liquid; and maintaining the mercury (II) content of the washing liquid by bringing said liquid into contact with an oxidizing agent of the kind such as herein described for mercury (I) ions.

Compl. specn. 12 pages.

Drg. 1 sheet.

## OPPOSITION PROCEEDINGS

(1)

The application for Patent No. 149194 made by Shri Yesurathinam Vincent, for which an opposition entered by Steelsworth Pvt. Ltd., Calcutta, as notified in the Gazette of India, Part-III, Section 2, dated the 1st May, 1982, should be amended and a patent has been ordered to be sealed on the said application.

(2)

An opposition has been entered by Council of Scientific and Industrial Research to the grant of a Patent on application No. 156724 made by Instytut Gornictwa Naftowego i Gazownictwa as notified in the Gazette of India, Part-III, Section 2 dated the 17th May, 1986 has been dismissed and order that the application for patent to be sealed.

(3)

An opposition has been entered by Research Design and Standards Organisation to the grant of a Patent on application No. 157354 made by Dr. Anil Kr. Kar as notified in the Gazette of India, Part-III, Section 2, dated the 27th September, 1986 the application for Patent No. 157354 has been treated as withdrawn.

(4)

An opposition has been entered by National Council of Cement and Building Materials to the grant of a Patent on application No. 157354 made by Dr. Anil Krishna Kar as notified in the Gazette of India, Part-III, Section 2, dated the 16th August, 1986 the application for Patent No. 157354 has been treated as withdrawn.

## CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

(1)

The claim made by University Patents Inc. & Contracap Inc under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 155101 in their name has been allowed.

(2)

The claim made by the Council of Scientific & Industrial Research under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 155159 in their name has been allowed.

(3)

The claim made by Hamakha Sugar Company Inc under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 157002 in their name has been allowed.

## PATENTS SEALED

(1)

146043 155957 155969 155972 155974 155993 155994 156016  
 156017 156022 156027 156029 156031 156032 156056 156059  
 156065 156070 156084 156107 156110 156122 156128 156218  
 156244 156246 156247 156258 156265 156266 156283 156298  
 156307 156376 156446 155331 155822 155925 155982 155983  
 156002 156003 156005 156028 156033 156034 156044 156057  
 156061 156067 156068 156071 156076 156077 156086 156088  
 156097 156109 156116 156117 156118 156123 156125 156127  
 156129 156132 156139 156228 156344 156345 156346 156386

## AMENDMENTS PROCEEDINGS UNDER SECTION 57

(1)

The amendments proposed by Diamond Shamrock Industrial Chemicals Limited in respect of Patent application No. 152382 as advertised in Part III Section 2 of the Gazette of India dated 18th August 1984, have been allowed.

(2)

The amendments proposed by Institut Elektrosvarki Imeni Corporation, in respect of Patent Application No. 153632 (79/Del/80) as advertised in Part III Section 2 of the Gazette of India dated 21st July 1984, have been allowed.

(3)

The amendments proposed by Institute Elektrosvarki Imeni E.O. Patona Akademii Nauk Ukrainskoj SSR, in respect of Patent application No. 154258 as advertised in Part III, Section 2 of the Gaette of India dated the 1st February 1986 has been allowed.

(4)

The amendments proposed by Ram Prakase Aneja and National Dairy Development Board in respect of Patent Application No. 157049 as advertised in Part III, Section 2 of the Gazette of India dated the 29th March, 1986 has been allowed.

(5)

The amendment proposed by Ram Prakash Aneja and National Dairy Development Board in respect of Patent application No. 157050 as advertised in Part III, Section 2 of the Gazette of India dated the 29th March, 1986 has been allowed.

## COMMERCIAL WORKING OF PATENTED INVENTIONS

CHEMICAL ENGG.  
LIST—I

The following patents in the field of chemical Engineering Industry are not being commercially worked in India as admitted by the patentees in the statements filed by them under section 146(2) of Patents Act, 1970, in respect of calender years 1984 & 1985 generally on account of want of request for licences to work the patented inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the Invention
1	2	3	4
124893	16-1-1970	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, INDIA	Process for the preparation of methyl bromide.
140584	17-8-1973	Do.	Preparation of porous polymeric composition of uncharged and charged types.
141861	12-2-1977	Do.	A process for the isomerisation of aromatic mono or poly sulphonic acids or mixtures thereof having one or more aromatic rings such as benzene, toluene or naphthalene.
142142	22-9-1975	Do.	A composition for the inhibition of corrosion of steel in cooling water systems.
142299	7-9-1974	Do.	Improvements in or relating to a process for the production of anthraquinone.
142300	7-9-1974	Do.	A process for the recovery & purification of anthracene from crude coal tar fraction.

1	2	3	4
142348	8-1-1976	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, INDIA.	A process for the extraction of gallium from sodium aluminate liquors bayer liquor obtainable from alumina producing plants.
142763	17-9-1975	Do.	A process for the recovery of vanadium from bauxite residue.
142955	14-4-1974	Do.	Process for the manufacture of potassium silicate by ion exchange technique.
143026	17-8-1978	Do.	An improved process for preparation of PTBP,
143332	11-2-1976	Do.	Improvement in or relating to a process for production of decolourising type Active Carbon from saw dust, coconut shell dust etc.
143687	4-5-1976	Do.	A new method for the production of master alloy of aluminium-magnesium.
143755	13-11-1975	Do.	An improved process for the manufacture of a pancreatin product for using for batting hides and skins in leather manufacture and for the stripping of gelatin from photographic and x-ray films.
144000	13-6-1975	Do.	Improvements in or relating to soak cleaning of steel contaminated with oil.
145466	29-12-1976	Do.	Improvements in or relating to the process of reduction of minerals matters in graphite.
146476	17-6-1977	Do.	A process for the preparation of anionic stabilised for liquors from animal oils.
146925	7-9-1977	Do.	Process for the preparation of improved alloy of magnesium for use as galvanic anode.
147560	21-1-1978	Do.	A process for the preparation of 17a (2H Acetoxyethyl) -17a-aza-D- homoandrost-5-en-38-yl acetate methiodide.
147580	31-8-1978	Do.	Process for the preparation of novel zinc-sodium silicate primer for protection of steel structures.
158132	13-4-1978	Do.	A process or the preparation of new yellow naphthoquino-quinazo Iondiene disperse dyes form polyester fibres.
148164	14-9-1977	Do.	Improvements in or relating to starch based compound binder for briquetting of charfibres or like materials to produce smokeless domestic fuel.
148720	21-1-1978	Do.	A process for the preparation of 4-(2-Acetoxyethyl)-4-aza -5x-androstan-17-yl acetate methiodide.
148721	21-1-1978	Do.	A process for the production of 17a- (2-Acetoxyethyl) -3B-pyrrolidino-17a-aza D-homonadost 5-cne dimethiodide.
150165	13-10-1978	Do.	A process for the preparation of new violet naphthostyryl cationic dyes.
150166	12-10-1978	Do.	A process for the preparation of new naphthostyryl disperse dyes for polyester fibres.
150391	11-9-1979	Do.	Process for the preparation of 3-phenoxy benzyl 1R-cis-2, 2- dimethyl-3-(2 chloro prop-1-enyl) cyclopropane carboxylate.

1	2	3	4
150470	28-12-1978	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, INDIA	A new process for the preparation of cis caronic acid from 4-x acetyl-car-2-ene.
151084	14-9-1979	Do.	An improved process for the preparation of polybutenes.
151085	30-12-1978	Do.	Process for the preparation of anhydrous acitic acid from its aqueous solutions.
151088	10-4-1980	Do.	A process for the production of immobilised pancreatic enzyme bates for use in leather manufacture.
151089	10-4-1980	Do.	An improved process for bating of skins and hides using immobilised pancreatic enzyme product for the manufacture of leather.
151464	18-2-1980	Do.	A process for the purification of sialic acid binding lectin names carcinoscorpin.
151660	12-12-1979	Do.	A novel process for recovery of D(+) camphor sulphonic acid during the resolution of DL. phenyl glycine.
151661	19-4-1980	Do.	A process for the preparation of anti-corrosion primer.
151691	16-4-1979	Do.	Process for electrochemical preparation of beta phenylethylamine using cobaltit black cathode.
152240	5-6-1979	Do.	An improved process for the separation of n-paraffins from petroleum fractions.
152306	3-6-1980	Do.	Process for the preparation of 3-phenoxybenzyl 1R-cis-2, 2-dimethyl-3 (2-cyclopropen-1-enyl)-cyclopropane carboxylate.
152541	9-7-1979	Do.	An improved process for the sweetening of petroleum distillates containing Mercapto-sulphur compounds.
145230	29-9-1977	SHELL INTERNATIONALE RESEARCH MAATSCH-APPIJ B.V. Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process & the reactor for the partial combustion of pulverized coal.
145517	18-10-1977	Do.	Process for the preparation of a hydrogen rich gas.
146516	26-10-1977	Do.	Esterification of hydrocarbyl substituted succinic anhydrides.
147049	21-11-1977	Do.	A process for the preparation of crystalline silicates.
147159	18-10-1977	Do.	Process for the preparation of hydrocarbons.
147546	19-10-1977	Do.	Improvements in a process for reactivating silver catalysts.
147547	19-10-1977	Do.	Improvements in the process for the production of ethylene oxide.
147701	21-11-1977	Do.	Process for the preparation of a catalysts composition.
147721	23-3-1977	Do.	Process for the production of ethylene oxide.
147831	27-2-1978	Do.	Process for the preparation of hydrocarbons.
148037	10-4-1978	Do.	Process for the catalytic cracking of crude petroleum fractions.
148781	27-2-1978	Do.	Process for the preparation of paraffinic and olefinic hydrocarbons.

1	2	3	4
148558	14-3-1978	SHELL INTERNATIONALE RESEARCH MAATSCHAPPI B. V. Carel Van Bylandtlaan 30, The Hague The Netherlands.	A process for the hydrogenation of hydrocarbons.
150526	16-1-1979	Do.	A process for the preparation of an aromatic hydrocarbon mixture.
151186	29-1-1979	Do.	Process for the catalytic cracking of hydrocarbon oils.
147144	30-9-1977	UNION CARBIDE CORPORATION 270 Park Avenue, New York, State of New York 10017, U.S.A.	Renitrogenation of basic-oxygen steels during decarburization.
147444	28-9-1977	Do.	Process for recovering solid particles of ammonium decavandate from an aqueous solution thereof.
148165	11-10-1977	Do.	A process for the production of low carbon steel.]
150476	20-11-1978	Do.	Process for the production of low cast refined metallurgical silicon from metallurgical grade silicon.
150688	21-2-1979	Do.	Process for the removal of acid gases from hot gas mixture.
151100	30-3-1979	Do.	Process for separation normal paraffins from admixture with non-normal paraffins
151189	6-3-1979	Do.	A process for the production of methane from carbon monoxide-containing gas streams.
147228	26-10-1977	STAMICARBON B.V. Post Office Box No. 45, Utrecht, The Netherlands.	Process for separation of NH <sub>3</sub> and CO <sub>2</sub> from Mixtures containing them.
148047	20-2-1978	Do.	Process for the bulk chlorination of solid finely divided high density polyethylene.
148829	16-10-1978	Do.	Process for the purification of impure benzaldehyde.
151102	9-4-1979	Do.	Process for removing melamine from melamine-containing liquids.
147000	11-11-1977	THE GOODYEAR TIRE & RUBBER COMPANY 1144 East Market Street, Akron Ohio, U.S.A.	A process for the molding of a zero pressure device.
148653	4-5-1978	Do.	Process for making an adhesive.
151094	28-2-1979	MOBIL TYCO SOLAR ENERGY CORPORATION. 16 Hickory Drive Waltham, Massachusetts, U.S.A.	Apparatus for use in a system for growing crystalline bodies of selected shape from a melt.
150279	23-11-1978	PFIZER INC 235 East 42nd Street, New York U.S.A.	A process for preparing N (tetra zol-5 yl) prostaglandin carboxamides.
150334	1-9-1978	Do.	Process for the preparation of 3-(2-hydroxy-4-(substituted) phenyl) cycloalkanol, analgesic agents and their derivatives.
150353	18-7-1978	Do.	A process for preparing antivital amine derivatives of glycerol and propane diols.
150354	18-7-1978	Do.	A process for preparing antivital amine derivatives of glycerol and propane diols.
150355	1-9-1978	Do.	A process for the preparation of 3-(2-Hydroxy-4-(substituted) Phenyl) cycloalkanone analgesic agents.

1	2	3	4
150574	13-3-1979	PFIZER INC 235 East 42nd Street New York U.S.A.	Process for the preparation of D1-O-N-alkyl glycerol derivatives as immune stimulants.
151190	8-3-1979	Do.	A process for preparing 2-methyl 2-hydroxypropyl piperazine -1-Carboxylate compounds.
152126	2-5-1979	Do.	A process for the preparation of aminothiazoles.
152416	21-6-1979	Do.	A process for the preparation of novel spiro-oxo-Indones.

## COMMERCIAL WORKING OF PATENTED INVENTIONS

MECHANICAL & GEN  
ENGG. LIST—I

The following patents in the field of Mechanical and General Engineering industry are not being commercially worked in India as admitted by patentees in the statements filed by them under section 146(2) of Patents Act, 1970, in respect of calendar years 1984 & 1985 generally on account of want of requests for licences to work the patented inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No. 1	Date of Patent 2	Name & Address of the Patentee 3	Title of the Invention 4
143124	20-10-1975	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1. INDIA	A process for the production of substantially ash free or low ash electrode grade coke, or petroleum coke substitute from coal tar pitch, coal extractor the like.
144601	12-5-1976	Do.	Device for producing ground support in mines.
145032	13-9-1976	Do.	A sub-soil Deformeter.
145134	2-9-1978	Do.	Continuous Drive Friction Welding.
146517	21-7-1977	Do.	Road unevenness Tester Device
146543	23-7-1977	Do.	An automatic marking devices for use with profile recorder of a road unevenness tester device.
146773	8-9-1977	Do.	A precision Wire Tensioner.
147035	26-9-1977	Do.	An improved soil mixing/Tilting implement.
147722	25-2-1978	Do.	Improved extrusion device for plastic materials for use in chemical and food industries.
147991	27-1-1979	Do.	Vacuum Guard.
148034	10-8-1978	Do.	Improved process for the production of stainless steel substrates with corrosion resistant black and shining coating.
148559	6-12-1978	Do.	Evaporator for producing fragmentary crystal clear ice.
149110	30-8-1978	Do.	An improved tubewell.
149249	17-5-1978	Do.	An apparatus for the simultaneous determination of carbon, hydrogen and halogens or sulphur in organic matter coke and coal and like materials.
149251	17-5-1979	Do.	Non-metallic backing strip for use in metal working.
150191	30-10-1978	Do.	An improved Oil-cum-Gas fired coke oven.
150349	12-12-1978	Do.	Gas Turbine Engine.
150816	18-1-1979	Do.	Improvements in or relating to granular piles.

1	2	3	4
145882	19-10-1977	SHELL INTERNATIONLE RESEARCH MAATSCHAPPIJ B.V. Carel Van Bylandtlaan, The Hague, The Netherlands.	Process for the separation of dry particulate matter from a hot gas.
146363	30-9-1977	TESA S.A. Rue Bugnon 38, 1020 Renens, Switzerland.	Improvements to micrometers for interior or internal measurements.
146499	3-10-1977	ALUMINIUM COMPANY OF AMERICA, Aloca Building, Pittsburgh, Pennsylvania, U.S.A.	Metal flake production.
146871	15-12-1977	SOCIETE POUR LE DEVELOPMENT ET L'EXPLOITATION DU PALMIER A HUILE Avory Coast, of Boito Postale 2049 abidian.	Apparatus for separation of the inner kernel from the shell of fruits.
147272	20-3-1978	QUIGLEY COMPANY INC. 235 East 42nd street, New York State of New York U.S.A.	Sprayer for repairing refractory lining.
147317	22-12-1977	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. Carel Van Bylandtlaan 30, The Hague, The Netherlands	Apparatus for the gasification of finely divided fuels.
147321	27-2-1978	UNION CARBIDE CORPORATION 270 Park Avenue New York State of New York 10017 U.S.A.	An improved liquid gas contacting tray
147493	1-11-1977	COMPAGNIE FRANCAISE D'ETUDES ET DE CONSTRUCTION "TECHNIP" 232 avenue Napoleon-Bonaparte, 92500. Fueil Malmaison, France	Device for winding tubes around vertical and stationary cores.
147518	19-6-1978	BFG GLASSGROUP Rue Caumartin, 43, Paris, France	Method of manufacturing mirrors and mirrors so obtained.
147528	13-2-1978	PAUL REIM 5 Rathausgasse, 7100 Heilbronn, Federal Republic of Germany	Framing means for framing a picture or other object.
147574	7-11-1977	USS ENGINEERS AND CONSULTANTS INC. 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Sliding gate valve.
147647	2-11-1977	CANADIAN INGERSOLL-RAND CO. LTD. 620 Cathcart Street H3B 1M2, Montreal, Quebec, Canada.	Screening apparatus hydrofoil.
147686	20-8-1975	USS ENGINEERS & CONSULTANTS INC. 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Apparatus for locating improperly positioned rolls in a curved roll-rack.
147704	30-6-1978	G.D. SOCIETA PER AZIONI VIA pomponia 10, Bloogna Italy	Device for checking the bands joining filters to cigarettes have been sealed down.
147808	29-9-1977	USS ENGINEERS & CONSULTANTS INC. 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	A sliding gate valve for a teeming vessel.
148029	31-1-1978	GIRLING LIMITED Kings Road, Tyseley, Birmingham 11, ENGLAND	Hydraulic braking systems for vehicles.
148058	2-11-1977	CANADIAN INGERSOLL-RAND CO. LTD. 620 Cathcart Street, H3B 1M2, Montreal, Quebec, Canada.	Screening apparatus.
148099	19-12-1977	CLARK & VICARIO CORPORATION 9620 Executive Centre Drive North, St. Petersburg, Florida 33702, U.S.A.	Apparatus for cleaning and deaerating a suspension of paper making stock.
148126	25-7-1978	PANDROL LIMITED 9 Holborn London EC1N 2NE, ENGLAND	Apparatus and a method for bending rods in making railway rail fastening clips.

1	2	3	4
148171	1-8-1978	CHARCON TUNNELS LIMITED South Well Lane, Kirkby-inn Ashfield, Nottinghamshire NG 17 8FN, ENGLAND.	Improvements in or relating to wall segments.
148203	21-7-1978	LODGE-COTTRELL LIMITED George Street Parade, Birmingham B3 1QQ, ENGLAND	Improvements in or relating to fume extraction.
143204	4-8-1978	Do.	Improvements in or relating to gas treatment plant.
148259	13-12-1977	TESA S.A. Rue Bugnon 38, 1020 Renens, Switzerland	Flat segment level lever for micrometer & guages.
148309	10-8-1978	G.D. SOCIETA PER AZIONI Via Pomponia, 10 Bologna, ITALY	Apparatus for folding cutout element in machines for packing articles.
148421	2-2-1978	USS ENGINEERS AND CONSULTANTS INC. 600 Grant Street, Pittsburgh, State of Pennsylvania U.S.A.	Positive displacement pump for handling a suspension of particles.
148424	21-5-1975	GIRLLING LIMITED Kings Road, Tyseley Birmingham 11, ENGLAND	Improvements in vehicle brakes.
148427	21-11-1977	G.D. SOCIETA PER AZIONI Via Pomponia, 10 Bologna, ITALY	Labelling device.
148480	3-4-1978	TESA S.A. Rue Bugnon 38, 1020 Renens, SWITZERLAND	Interior guaze for measuring the diameter of bores of machined workpieces.
148557	22-2-1978	Do.	A shock absorbing device for use in dial measuring instruments.
148613	26-12-1977	CHRISTOPHER TILLOTSON BROWN 1, Yarraburra Road, St. Ives, New South Wales 2075, AUSTRALIA	An improved armour unit for wave energy absorption.
148635	14-2-1978	SOUTHWIRE COMPANY 126, Fertilla Street Carrollton Georgia 30117 U.S.A.	A method of producing molten metal in a metal melting furnace.
148667	2-8-1978	JOHN DEREK GUEST 'Iona,' Cannon Hill way, Bray Mildenhead, Berkshire, England	Improvement in or relating to couplings for tubes.
148818	7-9-1978	SENTRALINSTITUT FOR INDUSTRIELL FORSKNING Forskningsvein 1, Oslo 3 Norway	A system for concentrating water wave energy
148833	30-4-1977	MOBIL TYCO SOLAR ENERGY CORPORATION 16, Hickory Drive, Waltham Massachusetts, U.S.A.	Cartridge and furnace for crystal growth.
148934	19-9-1978	THE GENERAL TIRE & RUBBER COMPANY One General Street Akron, Ohio 44329 U.S.A.	An improved method for the manufacture of rubber products.
148962	6-10-1978	NIPPON CLEAN ENGINE RESEARCH INSTITUTE COMPANY LTD. 205-3, Kitayasue-Cho, kanazawa-Shi, Ishikawa-ken Japan.	A generator blowes.
149160	7-12-1977	MAC GREGOR INTERNATIONAL S.A. St. Jakbosstrasse 9, 4002 Basel Switzerland.	Improvements in or relating to a device for opening hatch covers or the like composed of panels.
150169	16-11-1978	TESA S.A. Rue Bugno 38, 1020 Renens, Switzerland.	Dial measurement guage.
150192	10-11-1978	LODGE-COTTRELL LIMITED George Street Parade, Birmingham B3 1 QQ England.	Improvements in or relating to fume containment.
150245	3-11-1978	MOBILE SOLAR ENERGY CORPORATION 16, Hickory Drive, Waltham, Massachusetts, U.S.A.	Manufacture of solar cells.

1	2	3	4
150345	6-12-1978	GIRLING LIMITED Kings Road, Tyseley, Birmingham 11, England.	Improvements in disc brakes for vehicles.
150414	15-12-1978	SOUTHWIRE COMPANY 126 Fertilla Street, Carrollton, Georgia 30117, U.S.A.	Process for continuously casting a steel bar and a cast steel produced therefrom.
150537	14-2-1978	Do.	Improved premix gas burner assembly for a metal melting furnace.
150676	19-1-1979	TOXIDE GROUP LIMITED 10, Stratton Street, London W1A 4XP, England	Containers.
150689	28-2-1979	ICI AUSTRALIA LIMITED 1 Nicholson Street, Melbourne, Victoria, Australia.	A fuse device.
150694	23-5-1979	ARBED ACIERIES REUNIES DE BURBACH Apparatus for cooling rolled metal products EICH DUDELANGE SOCIETE ANONYME Avenue dela liberate, Post Box 1802, Luxembourg, Grand Duchy of Luxembourg.	
150822	9-2-1979	GIRLING LIMITED Kings Road, Tyseley, Birmingham 11, England	Improvements in fluid pressure operated brakes for vehicles.
150829	4-4-1979	G.D. SOCIETA PER AZIONI Via Pomponia 10 Bologna ITALY	Device for forming and transferring batches of products in automatic wrapping machines
141187	30-1-1979	USS ENGINEERS AND CONSULTANTS INC. 600 Grant Street, Pittsburgh, State of Pennsylvania U.S.A.	Subsurface pumping installation for handling viscous or sand laden fluids.
151216	22-2-1979	AKTIESELSKABET NORDISKE KABEL -09 TRAADFABRIKER La Cons Vej 7, DK-2000 Copenhagen F Denmark.	Machine for forming a head on a shank such as a nail or a screw.
151467	27-3-1979	ROBERT JOSEPH ARESTY 553 Pretty Brook Road, Princeton, New Jersey, U.S.A.	A solar energy Collector apparatus.
151473	24-4-1979	INDUSTRIE PIRELLI SPA Centro Pirelli, Piazza Duca D'Aosta NO. 3 Italy	Improvements in the manufacture of metallic cords.
151934	30-5-1979	THE GENERAL TIRE & RUBBER COM- PANY One General Street, Akron, Ohio 44329, U.S.A.	Apparatus for handling uncured tires.
152135	22-5-1979	THE GENERAL TIRE & RUBBER COM- PANY One General Street, Akron, Ohio 44329, U.S.A.	A tire building apparatus
151967	4-1-1980	INGERSOLL-RAND CANADA INC 630 Dorchester Blvd. W. Montreal Quebec H3B, 156 Canada	Pressurized screening apparatus for screening a liquid suspension
151974	30-5-1979	SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE 37, Boulevard De Montmorency, Paris France	Helicopter rotor
152011	27-4-1979	KARLSTADS HANDELS-OCH KONSULT AB Box 548, 651 09 Karlstad, Sweden	A Ship having means for dividing the free liquid surface contained therein.

## RENEWAL FEES PAID

137408 137859 138058 138997 139862 139917 140346 140504  
 140626 140827 140916 141154 142032 142035 142607 142706  
 143541 143641 143737 144281 145134 145230 145517 145795  
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## RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 149277 granted to Ahmedabad Manufacturing and Calico Printing Company Limited for an invention relating to "a method for the recovery of mercury from the effluents of the cell house of an electrolytic caustic soda plant".

The Patent ceased on the 9th July, 1985 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part-III, Section 2 dated the 2nd August, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice of Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 18-12-1986 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 153058 granted Council of Scientific & Industrial Research for an invention relating to "improved three-way solonoid valve device for fluid control/management."

The Patent ceased on the 13th September, 1985 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part-III, Section 2, dated the 6th September, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice of Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 18-12-1986 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the opponent's interest, the facts upon which bases his case

and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 153299 granted to Council of Scientific and Industrial Research for an invention relating to "a process for the preparation of a vegetable self tanning material from caesalpinis coriaria or dividivi pods use in leather industry."

The Patent ceased on the 21st February, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part-III, Section 2, dated the 6th September, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice of Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 18-12-1986 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the opponent's interest, the facts upon which bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice

(4)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154004 granted to Council of Scientific and Industrial Research for an invention relating to "an improved process for producing hard microcrystalline wax of low oil content."

The Patent ceased on the 18th February, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part-III, Section 2, dated the 6th September, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice of Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 18-12-1986 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the opponent's interest, the facts upon which bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice

(5)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154380 granted to Council of Scientific and Industrial Research for an invention relating to "a process for the synthesis of carbomoyl 9H-pyrido (3, 4-b) indoles".

The Patent ceased on the 14th February, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part-III, Section 2 dated the 6th September, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 18-12-1986 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the opponent's interest, the facts upon which bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice

(6)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154382 granted to Council of Scientific and Industrial Research for an invention relating to "a process for the synthesis of S-arylbenzimidazole-2-thiones".

The Patent ceased on the 18th February, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part-III, Section 2 dated the 6th September, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice of Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 18-12-1986 under Rule 69 of the Patent's Rules, 1972. A written statement in triplicate setting out the nature of the opponents interest, the facts upon which bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(8)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154394 granted to Council of Scientific and Industrial Research for an invention relating to "an improved process for the preparation of Keto acid, IR cis-2, 2-dimethyl-3-(2-oxopropyl) cyclopropane carboxylic acid and its homologue".

The Patent ceased on the 25th February, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part-III, Section 2 dated the 6th September, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice of Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 18-12-1986 under Rule 69 of the Patent's Rules, 1972. A written statement in triplicate setting out the nature of the opponents interest, the facts upon which bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(9)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154396 granted to Council of Scientific and Industrial Research for an invention relating to "a process for the preparation of IR, cis-2, 2 dimethyl-3-(2-oxopropyl) cyclopropanecarboxylic ester".

The Patent ceased on the 4th March, 1986 due to non-payment of renewal fees within the prescribed time and the cessation of the Patent was notified in the Gazette of India, Part-III, Section 2 dated the 6th September, 1986.

Any interested person may give notice of opposition to the restoration by leaving a notice of Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 18-12-1986 under Rule 69 of the Patent's Rules, 1972. A written statement in triplicate setting out the nature of the opponents interest, the facts upon which bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not to be inspection of a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. Nos. 157011 & 157012. Bhot Metal Industries. Indian Partnership Firm. 262 Sheikh Memon Street, 3rd floor, Zaveri Bazar, Bombay-400 002, Maharashtra, India. "Spoon". May 2, 1986.

Class 3. No. 156731. Eagle Flask Pvt. Ltd. Eagle Estate, Talegaon-410507, District Pune, Maharashtra, India. "Gas Lighter". February 27, 1986.

Class 3. No. 156732. Eagle Flask Private Limited. Eagle Estate, Talegaon-410507. District Pune, Maharashtra, India. "Jug". February 27, 1986.

Class 3. No. 156773. Eagle Flask Private Limited, Eagle Estate, Talegaon-410507. District-Pune, Maharashtra, India. "Jug". March 12, 1986.

Class 3. No. 156591. Eagle Flask Pvt. Ltd. Eagle Estate, Talegaon 410507, Maharashtra, India. "Vacuum Flask". February 4, 1986.

Class 3. 157020. Eagle Flask Pvt. Ltd. Eagle Estate, Talegaon 410507, Maharashtra, India. Vacuum Flask". May 5, 1986.

Class 3. Nos. 156673 & 156674. Lion Pencils Private Limited. Andrew Nagar, S.V. Road, Dabirsi, Bombay 400 068, Maharashtra, India. "Pencil". February 19, 1986.

Class 3. Nos. 157033 & 157034. Sigma Merchanting Private Limited. No. 7, Armenian Street, Madras-600 001, Tamilnadu, India. "Bottle Moulds". May 7,

Class 3. Nos. 157057 & 157058. Sigma Merchanting Private Limited. No. 7, Armenian Street, Madras-600 001, Tamilnadu, India. "Bottle Moulds". May 13, 1986.

Class 3. Nos. 156737 to 156739. Sigma Merchanting Private Limited. No. 7, Armenian Street. Madras-600 001, Tamilnadu, India. "Bottles". March 4, 1986.

Class 3. No. 156754 Sigma Merchanting Private Limited. No. 7, Armenian Street, Madras-600 001, Tamilnadu. India. "Bottles" March 6, 1986.

Class 3. Nos. 157059 & 157060. Sigma Merchanting Private Limited. No. 7, Armenian Street, Madras-600001, Tamilnadu, India. "Bottles". May 13, 1986.

Class 10. No. 157364. Life Shoes. 10, Ashok Nagar, Agra (UP). "Sole for footwear". August 22, 1986.

R. A. ACHARYA  
Controller General of Patents, Designs and  
Trade Marks